

LDO Regulator Pos 3.3V 0.25A Automotive 3-Pin TO-92 Bag

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: TO-92

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active



Images are for reference only

[Inquiry](#)

General Description

The MCP1700 is a CMOS low dropout positive voltage regulator which can source up to 250mA of current with an extremely low input-output voltage differential of 178mV at 250mA. The low dropout voltage combined with the low current consumption of only 1.6µA makes this part ideal for battery operation. The low voltage differential (dropout voltage) extends battery operating lifetime. The MCP1700 is stable with 1.0µF ceramic output capacitor. It also permits high currents in small packages when operated with minimum VIN – VOUT differentials. The circuit also incorporates short-circuit protection & over temperature protection to ensure maximum reliability.

Key Features

Extremely Low Operating Current for Longer Battery Life (1.6 uA typical)

Very Low Dropout Voltage (178 mV at full load)

Rated 250mA Output Current

High Output Voltage Accuracy ($\pm 0.4\%$ typical)

Over-Current and Over-Temperature Protection

Pin Compatible Upgrade for Bipolar Regulators & TC55 with Vin Max <6V

Requires only 1 µF Ceramic Output Capacitance



Recommended For You

MCP1416T-E/OT

Microchip Technology, Inc
SOT23-5

MCP1825S-1802E/DB

Microchip Technology, Inc
SOT-223

MCP1525T-I/TT

Microchip Technology, Inc
SOT23-3

MCP73831T-2ACI/OT

Microchip Technology, Inc
SOT23-5

MCP1253-ADJI/MS

Microchip Technology, Inc
MSOP8

MCP73832T-2ATI/OT

Microchip Technology, Inc
SOT23-5

MCP120-450DI/TO

Microchip Technology, Inc
TO-92

MCP1525-I/TO

Microchip Technology, Inc
TO92

MCP1541T-I/TT

Microchip Technology, Inc
SOT23-3

MCP73831T-2DCI/OT

Microchip Technology, Inc
SOT23-5

MCP16311T-E/MS

Microchip Technology, Inc
MSOP8

MCP16331T-E/CH

Microchip Technology, Inc
SOT23-6

MCP1754ST-5002E/CB

Microchip Technology, Inc
SOT-23

MCP1754ST-3302E/CB

Microchip Technology, Inc
SOT-23

MCP102T-315E/TT

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